

Recombinant Human ARNT protein, His/S-tagged

Cat. No. ARNT-32H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Human ARNT fused with His/S tag was expressed in E. coli.
Species	Human
Source	E.coli
Description	Transcriptional responses to many environmental and developmental stimuli are mediated by the basic helix-loop-helix (bHLH)-PAS family of proteins, which form homodimers that bind regulatory DNA sequences. ARNT/HIF-1 beta regulates the expression of different sets of genes in response to distinct environmental challenges. ARNT forms a complex with arylhydrocarbon receptor (AHR) to activate expression of genes encoding P450.
Molecular Mass	21.5 kDa
Storage	Store at +4 centigrade for up to 1 month, or aliquot and store at -80 centigrade for up to 12 months. Avoid repeat freeze-thaw cycles.

GENE INFORMATION

Gene Name	ARNT aryl hydrocarbon receptor nuclear translocator [Homo sapiens]
Official Symbol	ARNT
Synonyms	ARNT; aryl hydrocarbon receptor nuclear translocator; bHLHe2; HIF 1beta; dioxin

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

receptor, nuclear translocator; class E basic helix-loop-helix protein 2; hypoxia-inducible factor 1, beta subunit; HIF1B; TANGO; HIF1BETA; HIF-1beta; HIF1-beta; HIF-1-beta;

Gene ID [405](#)

mRNA Refseq [NM_001668](#)

Protein Refseq [NP_001659](#)

MIM [126110](#)

UniProt ID [P27540](#)

Chromosome Location 1q21

Pathway Angiogenesis, organism-specific biosystem; HIF-1-alpha transcription factor network, organism-specific biosystem; HIF-2-alpha transcription factor network, organism-specific biosystem; Hypoxic and oxygen homeostasis regulation of HIF-1-alpha, organism-specific biosystem; Notch-mediated HES/HEY network, organism-specific biosystem; Pathways in cancer, organism-specific biosystem; Renal cell carcinoma, organism-specific biosystem;

Function aryl hydrocarbon receptor activity; aryl hydrocarbon receptor binding; protein binding; protein heterodimerization activity; contributes_to sequence-specific DNA binding; sequence-specific DNA binding transcription factor activity; contributes_to sequence-specific distal enhancer binding RNA polymerase II transcription factor activity; signal transducer activity; transcription coactivator activity; transcription factor binding;

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA